MONROE COUNTY *News From*
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Greater Rochester International Airport Completes $4 Million Energy Improvement Project

NYSERDA Provides $900,000 to Improve Power Reliability at Airport

The Greater Rochester International Airport (GRIA), the New York State Energy and Research Development Authority (NYSERDA) and Siemens Building Technologies, Inc. have successfully partnered on a $4.3 million energy efficiency project that includes a state-of-the-art combined heat and power system (CHP). Combined heat and power systems enable commercial and industrial energy users to generate their own electricity while using waste heat from the electric generation equipment for purposes such as space heating, cooling and domestic hot water.

"This new heating and power system gives the airport the cost efficiency and the operational independence so important to meet the current times," said Jack Doyle, Monroe County Executive. "We expect to save approximately 48% or $482,000 in annual energy costs at the airport. NYSERDA has not only helped our airport but has assisted more than 180 other projects with industry and businesses in Monroe County. I applaud the Governor for his vision and support in the critically important arena of energy efficiency."

"With Governor Pataki's support, New York State will lead the way to increase the number of installations of CHP systems. Our programs will ensure waste heat from this style of power generation is used to maximize efficiency and environmental benefits," said NYSERDA Acting President Peter R. Smith. "This technology provides users greater control over their energy costs while protecting them from power disruptions and blackouts that could have negative impacts on the airport's operations."

"This project is not only an example of energy innovation, but also provides energy independence for the airport," said New York Senator Jim Alesi. "With the new energy improvements here, the airport will be able to remain in service during substantial power outages and save hundreds of thousands in annual energy costs."

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To highlight the project, GRIA will open a web site, www.rocenergysavings.com, and kiosk to provide an overview of the project for business and institutions interested in CHP. The site will present information about the type of CHP system installed, diagrams of the system and details of the site's energy and environmental gains from the systems operation. The web site will also include a video developed by four local high school students from Churchville Chili Central Schools who worked on this project under an internship with Siemans Building Technologies, Inc. The system is expected to yield a reduction of more than six million-kilowatt hours per year; enough electricity to power more than 1000 homes. GRIA is expected to save approximately $482,000 in annual energy costs.

The combined heat and power co-generation plant for the airport provides multiple benefits for the airport facility, airport travelers, and county taxpayers. These benefits are realized through energy cost savings, increased power quality and reliability, environmental improvements and increased stability relating to future energy costs at the airport.

The CHP plant consists of two medium-sized 750-kilowatt engine driven co-generation units that produce electricity and hot water. The hot water is linked to the existing airport heating system and central cooling system. Hot water heat recovered from the co-generation units is used to heat the airport in winter and, through a special mechanism known as an absorption chiller, it also provides air conditioning in the summer. The CHP plant simultaneously produces most of the airport's electricity as well as its hot water, building heat and air conditioning.

"I am pleased that NYSERDA could help a large facility like the Rochester Airport improve energy efficiency and save money," said New York State Assemblywoman Susan John. "Combined heat and power technology is an effective, environmentally sound solution to high energy bills and I encourage other businesses and institutions to take advantage of the opportunities NYSERDA can offer."

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The 56 projects NYSERDA is supporting represent a total investment of $96 million in combined heat and power when co-funding for the projects is factored in. The CHP program and the projects supported will address the power generation, availability, reliability, and power quality needs of New York State while emphasizing energy efficiency and environmental quality. The projects are expected to result in direct energy, environmental, and economic benefits such as peak electric demand reduction, higher fuel-use efficiency, emissions reduction, lower energy costs, job creation, and product sales.

Since 1998, NYSERDA has provided more than $7 million to support more than 181 projects in Monroe County. Combined with co-funding from NYSERDA's partners, the value of these projects is nearly $13 million. Some of the other customers NYSERDA is working with in Monroe County include: Rochester Institute of Technology, Mikron Corporation Rochester, Zweigles Inc., YMCA of Rochester, Siemans Building Technologies, and the University of Rochester Medical Center.

NYSERDA administers the New York Energy Smart*(sm) program, which is designed to support certain public benefit programs during the transition to a more competitive electricity market. Some 1,100 projects in more than 30 programs are funded by a charge on the electricity transmitted and distributed by the State's investor-owned utilities. The New York Energy Smart*(sm) program provides energy efficiency services, including those directed at the low-income sector, research and development, and environmental protection activities.

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